## In the Claims

Claims 1-3, 5-18, and 20-29 are pending before entry of this response.

Claims 4 and 19 were cancelled previously.

Pending claims 1-3, 5-18, and 20-24 are cancelled without waiver, prejudice, or disclaimer, resulting in the cancellation of claims 1-24 cumulatively.

Claims 25-29 remain pending after entry of this response.

## 1. - 24. (Cancelled).

- data packet, the managed network element connected to a plurality of managed network elements, the data packet to be afforded one of a plurality of service classes, wherein the service class is predetermined at one of the plurality of managed network elements, comprising, a memory, a processor in communication with the memory, executable code running on the processor, and a forwarding table stored in the memory, the memory, processor, executable code, and the forwarding table collectively comprising the element resources, the element resources being partitioned into a plurality of element instances, each element instance being engineered to provide one of the service classes, wherein the element virtual circuits.
- 26. (Original) The network element of claim 25, wherein the element resources further comprise an application specific integrated circuit.
- 27. (Original) The network element of claim 25, wherein the element resources further comprise a programmable gate array.

 data packet, the managed network element connected to a plurality of managed

network elements, the data packet to be afforded one of a plurality of service

classes, wherein the service class is predetermined at one of the plurality of

managed network elements, comprising, a memory, a processor in communication

with the memory, a forwarding table stored in the memory, and an application

specific integrated circuit (ASIC), the memory, processor, ASIC, and forwarding

table comprising the element resources, the element resources being partitioned

into a plurality of element instances, each element instance being engineered to

provide one of the service classes, wherein the element instances are connected to

(Previously presented) A managed network element for handling a

29.

each other via permanent virtual circuits.

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